Title (en)

POWER CONTROL FOR WIRELESS LAN STATIONS

Title (de)

LEISTUNGSREGELUNG FÜR DRAHTLOSE LAN-STATIONEN

Title (fr)

COMMANDE DE PUISSANCE POUR STATIONS DE RÉSEAU LOCAL SANS FIL

Publication

EP 2316241 A1 20110504 (EN)

Application

EP 09791554 A 20090816

Priority

- US 2009053966 W 20090816
- US 9036508 P 20080820
- US 35273309 A 20090113

Abstract (en)

[origin: US2010046479A1] Techniques and apparatus for controlling the transmit power of an uplink (UL) signal from a user terminal in a wireless communications system in an effort to achieve some target characteristic, such as a target carrier-to-interference (C/I) ratio, at an access point (AP) are provided. In this manner, such a user terminal may help avoid or compensate for imbalances in received radio frequency (RF) power between UL signals received from multiple user terminals by the AP. For example, the transmit power at each user terminal may be controlled in an effort to achieve a target post-processing C/I ratio of 28 dB per spatial stream in an effort to reduce large power imbalances and optimize throughput per user terminal. The user terminal and the AP may compose part of a multiple-input multiple-output (MIMO) communication system utilizing spatial-division multiple access (SDMA) techniques.

IPC 8 full level

H04W 52/24 (2009.01)

CPC (source: EP KR US)

H04B 7/0413 (2013.01 - KR); **H04B 7/0697** (2013.01 - KR); **H04W 52/08** (2013.01 - KR); **H04W 52/146** (2013.01 - KR); **H04W 52/241** (2013.01 - EP KR US); **H04W 52/243** (2013.01 - US); **H04W 52/36** (2013.01 - US); **H04W 88/08** (2013.01 - KR); H04W 52/08 (2013.01 - EP US); H04W 52/146 (2013.01 - EP US); H04W 84/12 (2013.01 - US); Y02D 30/70 (2020.08 - KR US)

Citation (search report)

See references of WO 2010021950A1

Citation (examination)

US 2007265026 A1 20071115 - YOU HWA-SUN [KR], et al

Cited by

US11424886B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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US 35273309 A 20090113; CN 200980132261 A 20090816; EP 09791554 A 20090816; JP 2011523898 A 20090816; KR 20117006474 A 20090816; TW 98127918 A 20090819; US 2009053966 W 20090816; US 201514690656 A 20150420; US 201715466437 A 20170322